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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/973,853 10/10/2001		Neville J. Anthony	20757Y	7109	
210	7590 07/26/2004	EXAMINER		INER	
MERCK AND CO INC			COLEMAN, BRENDA LIBBY		
P O BOX 200 RAHWAY, N	0 1J 070650907		ART UNIT	PAPER NUMBER	
,			1624		
			DATE MAILED: 07/26/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)			
Office Action Summary		09/973,8	353	ANTHONY ET AL.			
		Examine	er	Art Unit			
		Brenda	Coleman	1624			
Period fe	The MAILING DATE of this communi	cation appears on th	ne cover sheet with the	correspondence address			
A SH THE - Exte after - If the - If NO - Failu Any	IORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIO ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commit of period for reply specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no e unication. or days, a reply within the sta tutory period will apply and will, by statute, cause the ap	event, however, may a reply be ti atutory minimum of thirty (30) da will expire SIX (6) MONTHS fron oplication to become ABANDONI	imely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status							
1)[\]	Responsive to communication(s) filed	d on <u>06 May 2004</u> .					
2a)⊠	This action is FINAL . 2	b)∐ This action is	non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5) <u>□</u> 6)⊠	Claim(s) 1 and 3-37 is/are pending in 4a) Of the above claim(s) 16-20,28,28 Claim(s) is/are allowed. Claim(s) 1,3-15,21-27,30-32 and 37 is/are objected to. Claim(s) are subject to restrict	<u>9 and 33-36</u> is/are v is/are rejected.		ration.			
Applicat	ion Papers						
9)[The specification is objected to by the	Examiner.					
10)[0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objec			' '			
11)	Replacement drawing sheet(s) including The oath or declaration is objected to		= : :	• • • • • • • • • • • • • • • • • • • •			
Priority (ınder 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority of None of: 2. Certified copies of the priority of None of: 3. Copies of the certified copies of the priority of None of the priority of None of the priority of None of the Certified copies of the certified copies of None o	documents have be documents have be of the priority docum nal Bureau (PCT Ru	en received. en received in Applicat ents have been receive le 17.2(a)).	ion No ed in this National Stage			
Attachmen	t(s)						
1) Notic) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) 🛛 Infor	re of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F r No(s)/Mail Date <u>2/18/04, 3/18/04, 5/6/04)</u>	PTO/SB/08)	Paper No(s)/Mail D. 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)			

DETAILED ACTION

Claims 1 and 3-37 are pending in the application.

This action is in response to applicant's amendment filed May 6, 2004. Claims 1, 4, 7-9 and 11 have been amended.

Election/Restrictions

1. Claims 16-20, 28, 29 and 33-36 are withdrawn from further consideration pursuant to 37 CFR 1 .142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 13.

Response to Amendment

Applicant's amendments and arguments filed May 6, 2004 have been fully considered with the following effect:

2. With regards to the 35 U.S.C. § 112, first paragraph rejection of claims 25-27 and 30-32 labeled paragraph number 2) in the last office action, the applicant's amendments and remarks have been fully considered but they are not persuasive. The applicants stated that the specification discloses that representative compounds of the invention inhibit HIV replication and describes how to use the compounds of the invention by providing a detailed description of suitable forms, pharmaceutical compositions and their preparation, routes of administration, and dosages. The applicants also stated that using this description, optionally in combination with know how available in the art, the person of ordinary skill can without undue experimentation prepare and administer a compound of the invention in a suitable carrier and in the appropriate dosage form and

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dosage amount to a subject in order to treat HIV infection and AIDS. However, with respect to claims 26 and 30 it is not the treatment of HIV infection and AIDS but the inhibition of HIV integrase that is being claimed. The applicants stated that none of the rejected claims is directed to the inhibition of HIV integrase, so the mode of action of the claimed compounds is not pertinent, which is not so. Hence the 35 U.S.C. § 112, first paragraph rejection is herein maintained with respect to claims 26 and 30.

Claims 26 and 30 are rejected under 35 U.S.C. 1 12, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention, for reasons of record and stated above.

3. With regards to the 35 U.S.C. § 112, first paragraph rejection of claims 1, 3-13, 25-27 and 32 labeled paragraph number 10) in the last office action, the applicant's amendments and remarks have been fully considered but they are not persuasive. The applicants stated that claim 1 has been amended to replace "-H(Ra)Rt in the definition of Rt with "-N(H)Rt or -N(C₁₋₆ alkyl)Rt and that claim 1 as originally filed provides express support for -N(C₁₋₆ alkyl)Rt and support for -N(H)Rt can be found, for example, in claim 4 as originally filed, which recites -N(Ra)Rt (where Ra is H or C₁₋₄ alkyl) as a substituent of Rt. However, the definition of Rt in claim 4 is part of a sub-genus of formula (II), with specific variables, not the description of the genus of Formula I. Additionally, recent case law Tronzo v. Biomet 47 USPQ2d 1829 states that a species in a prior application does not provide written description to a generic claim.

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Claims 1, 3-13, 25-27 and 32 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention, for reasons of record and stated above.

4. With regards to the provisional obviousness-type double patenting rejection as being unpatentable over copending Application No. 10/399,083, Attorney Docket No. 20950Y, 10/398,929 and 10/218,537 labeled paragraphs 5, 6, 7 and 8 in the last office action, the applicant's remarks have been fully considered but they are not persuasive. The applicant's stated that when the only rejection remaining is a provisional double patenting rejection, the Examiner should withdraw the rejection and allow the application to issue as a patent. However, this is not the only issue remaining.

Claims 1, 3-15, 21-27, 30-32 and 37 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims of copending Application No. 10/399,083, for reasons of record and stated above.

- 5. Claims 1, 3-15, 21-27, 30-32 and 37 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims of copending Application No. 10/486,535, for reasons of record and stated above.
- 6. Claims 1, 3-15, 21-27, 30-32 and 37 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over

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claims of copending Application No. 10/398,929, for reasons of record and stated above.

- 7. Claims 1, 3-15, 21-27, 30-32 and 37 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims of copending Application No. 10/218,573, for reasons of record and stated above.
- 8. With regards to the 35 U.S.C. § 112, second paragraph rejection labeled paragraph 11) of the last office action, the applicant's amendments and remarks have been fully considered but they are not persuasive. The applicants failed to comment on the 35 U.S.C. § 112, second paragraph rejection of claim 11 which is directed to the lack of antecedent basis for -N(R^a)-C(=O)-(CH₂)₁₋₂-C(=O)-N(R^a)₂ in the definition of R^k.

Claim 11 is rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, for reasons of record and stated above.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brenda Coleman whose telephone number is 571-272-0665. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mukund Shah can be reached on 571-272-0674. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brenda Coleman

Primary Examiner Art Unit 1624

Brenda Colomas

July 20, 2004